

## Product datasheet for **SC115063**

### Hsp22 (HSPB8) (NM\_014365) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hsp22 (HSPB8) (NM_014365) Human Untagged Clone
Tag:	Tag Free
Symbol:	Hsp22
Synonyms:	CMT2L; DHMN2; E2IG1; H11; HMN2; HMN2A; HSP22
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM\_014365 edited  
ATGGCTGACGGTCAGATGCCCTTCTCCTGCCACTACCCAAGCCGCTGCGCCGAGACCCC  
TTCCGGGACTCTCCCCTCCTCTCGCCTGCTGGATGATGGCTTTGGCATGGACCCCTTC  
CCAGACGACTTGACAGCCTCTTGCCCGACTGGGCTCTGCCTCGTCTCTCCTCCGCTGG  
CCAGGCACCCCTAAGGTCGGGCATGGTGCCCGGGGCCCACTGCCACCGCCAGGTTTGGG  
GTGCCTGCCGAGGGCAGGACCCCCACCCTTCCCTGGGAGCCCTGGAAAGTGTGTGTG  
AATGTGCACAGCTTCAAGCCAGAGGAGTTGATGGTGAAGACAAAGATGGATACGTGGAG  
GTGTCTGGCAAACATGAAGAGAAACAGCAAGAAGGTGGCATTGTTTCTAAGAACTTACA  
AAGAAAATCCAGCTTCTGCAGAGGTGGATCCTGTGACAGTATTTGCCTCACTTTCCCA  
GAGGGTCTGCTGATCATCGAAGCTCCCCAGGTCCCTCCTACTCAACATTTGGAGAGAGC  
AGTTTCAACAACGAGCTCCCCAGGACAGCCAGGAAGTCACCTGTACCTGA



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_014365 unedited            ATTTTGTAAACGACTTACTATAGGGCGGCCGGAATTCGGCACGAGGGGTTTATTAAGC            TCCTGGCTCCGCTCTAGACCTCAGCGGTTCTGGCTGCCAGCCTGGGCAGCCTGGGAAGCC            TGGGAGGACGGTGGCTTGCCGGTCTGTCGTGAGGCAGTGGGACGGGACCCCTCTGGGAT            TCTGCTGGATCTGCCCCGGGGTTACCTTTGGGGGCTGGGACCCAGTCGAGGGGACACA            ACCGTCCCTGGCAGTGGTTGGTTCTGCTTCTCCCTGCAGAAAAGCAGCATTTTCGGAAGC            TGAAGAATAAGCTAGCCCAGCCACACCACCTTGTGTGACCTTGGGCAGGTGGTTCTG            TCTCTCTGAGCCTCTGTTTCTCTCTGAGCTGAGCAGCCACCATGGCTGACGGTCAGATGC            CCTTCTCCTGCCACTACCCAAGCCGCTGCGCCGAGACCCCTTCCGGGACTCTCCCTCT            CCTCTCGCTGCTGGATGATGGCTTTGGCATGGACCCCTTCCCAGACGACTTGACAGCCT            CTTGGCCCGACTGGGCTCTGCCTCGTCTCTCTCCGCCTGGCCAGGCACCCTAAGGTCGG            GCATGGTGCCCGGNGCCCACTGCCACCGCCAGGTTTGGGGGTGCTGCCGAGGGCAGG            ACCCCCCACCCTTCCCTGGGGAGCCCTGGAAAGTGTGTGAATGTGCACAGCTCAAG            CCAGAGGAGTTGATGGTGAAGACCAAAGATGGATACGTGGNAGGTGTCTGGNCAACATNG            AAGAGAACAGCAAGAAGGTGGCATTGTTTCTAAGAACTTCAAAAANAAAATCCAGCTTTN            CTGCAGAGTGGNTCCCTGTGACAGTATTTGCCTTACTTTCCCCAGAGGGTCTGCTGATCA            TCCGAGCTCCCCAGNTCCCTT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_014365 unedited            GTACCGCGGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGTTTTAAGAACGT            CAGCTCCTTTATTATTATTATTATTAATTTACTGGTATTTACCCCTAAACAACAGCA            TAACTCAAATAAATGACACACACGTCCCGCCATATACACAATACCACTAGCCTATCT            GTCAGGCTATCTGGCCTTTGCTTGGTTCCTGATGGAGCTGTCTGGAGACAGCTCCCTCTG            TAAAAATCCTGACTTAAACACAGGGGACAGAAGAAAGGGGGACCTAGGCCAGATCATAA            ACTGACAGGCTCCAGCGTCTTAGGGAGTGCTAATGTGGAACCTTTGAGAACGTGCTGG            ACACATCTGGGCAGAGGGCAGAAGGCACTGTTTGTTTTTATGTGGTTGATGGATAAATTC            CATATGGGGATATAAGACCTGTATATCACCCATTTTAGGCCAGGCATGTGGAAGCACAGT            GGGGTTAGCTACTGGGTTTCATTAACCAAACCATGCGGCATGGTTTGGGAGCCATGGGAA            TCGGGAGCCCAGAGTAGGAACCTGGGTGATGGGGGAGGTCCCCAGAGAAAAGTAACCCTT            GCATTCAGTCAAGTAAGATAACAACGTGAAATGTTAAGTCCCCTTTTATGTGTTTTGCAA            CTATAGAAATGTGCAACATTTTCATCAAGATAGAAAAGGTAAGAAAAGCAAACTAGTATT            TTTGGCCTAACACAACCAAGCATGATTTGCCAATTGCGCTATCCTGTGGAGAAATCTACC            ACTACACTATCCAAGGAATCTTGTGGTCAGTCCTCCACCCCGCACCCCTCTAACATTTTAC            TTGCACTAAACCGAGGTCACTAAAAGTATGGATCCTGGAATCAAAAAACCCCTAGGTTGG            TGACCAAACAGGATGGTCCAGTCTGCCTA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014365
<b>Insert Size:</b>	1920 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_014365.2](#), [NP\\_055180.1](#)

**RefSeq Size:** 2056 bp

**RefSeq ORF:** 591 bp

**Locus ID:** 26353

**UniProt ID:** [Q9UJY1](#)

**Cytogenetics:** 12q24.23

**Domains:** HSP20

**Protein Families:** Druggable Genome, Protein Kinase

**Gene Summary:** The protein encoded by this gene belongs to the superfamily of small heat-shock proteins containing a conservative alpha-crystallin domain at the C-terminal part of the molecule. The expression of this gene is induced by estrogen in estrogen receptor-positive breast cancer cells, and this protein also functions as a chaperone in association with Bag3, a stimulator of macroautophagy. Thus, this gene appears to be involved in regulation of cell proliferation, apoptosis, and carcinogenesis, and mutations in this gene have been associated with different neuromuscular diseases, including Charcot-Marie-Tooth disease. [provided by RefSeq, Jul 2008]